Access Management Framework

**High Level Design Document**

Contents

[1. Introduction 3](#_Toc150511132)

[2. System Architecture 3](#_Toc150511133)

[3. Components and Modules 3](#_Toc150511134)

[3.1 Member Management 3](#_Toc150511135)

[3.1.1 Member Registration 3](#_Toc150511136)

[3.1.1.1 Use Case 3](#_Toc150511137)

[3.1.1.2 Flow Chart 4](#_Toc150511138)

[3.1.1.3 Class Diagram 5](#_Toc150511139)

[4. Data Flow 5](#_Toc150511140)

[5. User Interfaces 5](#_Toc150511141)

[6. Communication Protocols 5](#_Toc150511142)

[7. Security Considerations 5](#_Toc150511143)

[8. Error Handling 5](#_Toc150511144)

[9. Performance Considerations 5](#_Toc150511145)

[10. Testing Strategy 5](#_Toc150511146)

[11. Dependencies 5](#_Toc150511147)

[12. Deployment and Release Strategy 6](#_Toc150511148)

[13. Operational Considerations 6](#_Toc150511149)

[14. Compliance and Regulations 6](#_Toc150511150)

[15. Glossary 6](#_Toc150511151)

[16. References 6](#_Toc150511152)

1. Introduction

# Purpose of Document

The primary purpose of this High-Level Design (HLD) document is to provide a comprehensive architectural overview and design framework for the development team and other stakeholders involved in the application development process. This document serves as a bridge between the Functional Requirements Specification (FRS) and the actual implementation phase, offering a detailed blueprint that outlines the structural components, interactions, and design principle of the system.

# Scope of Document

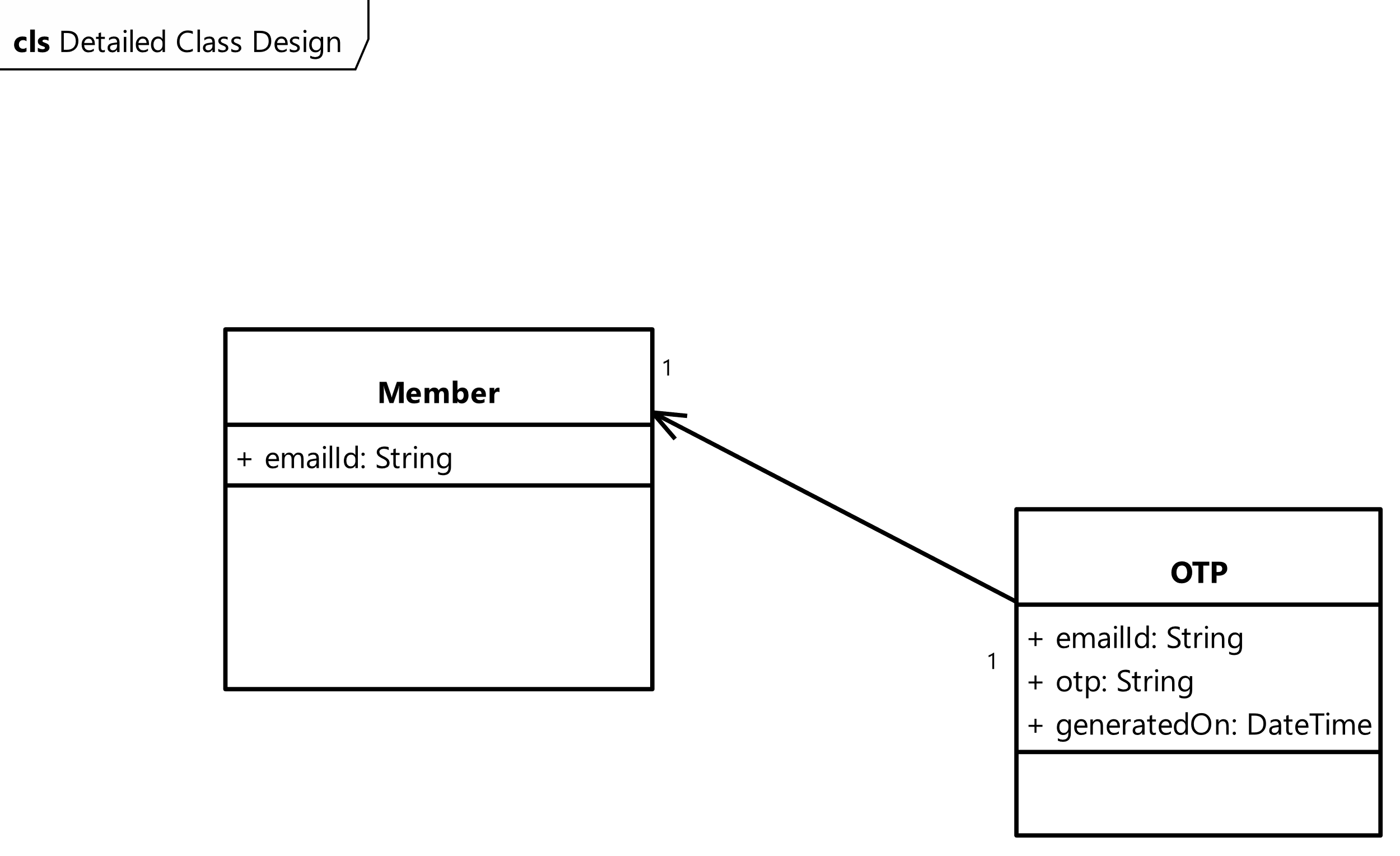
1. System Architecture
2. Design Principles
3. Data Design
4. Component Design
5. User Interface Design
6. Security Design
7. Integration Design
8. Deployment Architecture
9. Performance Considerations
10. Error Handling and Logging
11. Testing Strategy
12. Documentation and Version Control
13. Dependencies
14. Conclusion
15. References

TODO.

1. Components and Modules
   1. Member Management
      1. Member Registration
         1. Use Case

|  |  |  |
| --- | --- | --- |
| **1: Member Registration** | | |
| **Use Case Number** | 1 | |
| **Use Case Name** | Member Registration | |
| **References** | **Reference Type** | **Reference** |
| FRSD | 4.3.1.1 |
|  |  |
| **System** | This use case occurs within an application where individuals or organizations can become members. The registration process allows individuals or organizations to provide their information and become members of the Application. | |
| **Actors** | * An Individual or an Organization | |
|  | |
| **Use Case Goal** | The purpose of this use case is to describe the process by which an individual or an organization can register as a member. | |
| **Primary Actors** | * An Individual or an Organization | |
|  | |
| **Preconditions** | * Registrant must have an email Id | |
| * The Email id is not already registered within the application | |
| * Registrant should have access to its email account | |
|  | |
| **Basic Flow** | * Take email Id as Input * Validate email Id * Send OTP to provided email id * Validate OTP * Create Member | |
| **Alternative Flows** | **Alternative Flow No** | **Alternative Flow** |
| 1 | * **Email id already registered**. * Inform Registrant |
| 2 | * **Invalid OTP** * Inform Registrant |
| **Notes** |  | |
| **Dependencies** |  | |

* + - 1. Flow Chart
      2. Class Diagram0



1. Data Flow

TODO.

1. User Interfaces

TODO.

1. Communication Protocols

TODO.

1. Security Considerations

TODO.

1. Error Handling

TODO.

1. Performance Considerations

TODO.

1. Testing Strategy

TODO.

1. Dependencies

TODO.

1. Deployment and Release Strategy

TODO.

1. Operational Considerations

TODO.

1. Compliance and Regulations

TODO.

1. Glossary

TODO.

1. References

TODO.